

1 **IN THE CLAIMS**

3 **Claim 1. (CANCELLED)**

4 **Claim 2. (CANCELLED)**

5 **Claim 3. (CANCELLED)**

6 **Claim 4. (CANCELLED)**

7 **Claim 5. (CANCELLED)**

9 **Please amend Claim 6 as follows.**

11 6. (Currently Amended) A digital radio system,
12 comprising:

13 a transmitter unit, the transmitter unit including a
14 transmitter programmable processor, wherein a signal stream
15 transmitted by the transmitter unit is encoded with an
16 encoding algorithm installed in the transmitter
17 programmable processor; and

18 at least one receiver unit, the receiver unit
19 including:

20 apparatus for receiving the signal stream
21 transmitted by the transmitter unit and converting the
22 signal stream into a digital format signal stream;

23 identification apparatus, the identification
24 apparatus determining when an updated decoding algorithm
25 decoding the digital format signal stream is installed in
26 the receiver unit; the transmitter unit requesting the
27 updated decoding algorithm when the updated decoding
28 algorithm is not installed in the receiver unit;

29 a receiver programmable processor for decoding
30 the digital format signal ~~15~~ stream using a the updated

1 decoding algorithm installed in the receiver programmable
2 processor, the receiving unit requesting the updated
3 decoding algorithm when the updated decoding algorithm is
4 not installed in the receiving unit ~~wherein the updated~~
5 ~~decoding algorithm is provided by one provider selected~~
6 ~~from the group consisting of the manufacturer of the~~
7 ~~receiver unit and the transmitter unit,~~
8 ~~wherein the selected encoding decoding algorithm~~
9 ~~in the transmitter programmable processor specifies a~~
10 ~~transmission signal format and wherein an updated decoding~~
11 ~~algorithm permits the receiver unit programmable processor~~
12 ~~to decode the an updated transmission signal format.~~

13
14 **Please amend Claim 7 as follows.**

15
16 7. (Currently Amended) The digital radio system as
17 recited in claim 6 wherein the updated ~~transmission format~~
18 decoding algorithm is broadcast in a broadcast transmission
19 control channel to update the receiver unit.

20
21 8. (As Filed) The digital radio system as recited in
22 claim 6 wherein a dual transmission mode is used to update
23 the receiver unit.

24
25 **Please amend Claim 9 as follows**

26
27 9. (Currently Amended) The digital radio system as
28 recited in claim 8 wherein the dual transmission mode
29 includes transmission of ~~the~~ an old transmission format and
30 the ~~new~~ updated transmission format simultaneously.

1 **Claim 10. (CANCELLED)**

3 **Please amend Claim 11 as follows.**

5 11. (Currently Amended) A method for altering an
6 encoding and a decoding algorithm in a digital radio
7 system, the digital radio system including a transmitter
8 and at least one receiver unit, the method comprising:
9 installing ~~the~~ an updated encoding algorithm in a
10 programmable processor of the transmitter unit;
11 providing ~~the~~ an updated decoding algorithm for a
12 programmable processor of the receiver unit, wherein the
13 providing step includes the steps of;
14 transmitting the updated decoding algorithm by
15 the transmitter unit to the receiver unit,
16 converting the transmitted updated decoding
17 algorithm to a digital signal format; and
18 applying the converted updated decoding algorithm
19 to the receiver programmable processor, wherein the
20 receiver programmable processor installs the decoding
21 algorithm for decoding of transmitted encoded signal
22 streams by the transmitter unit; ~~and~~
23 ~~—installing the decoding algorithm in the programmable~~
24 ~~processor of the receiver.~~

26 **Claim 12. (CANCELLED)**

27 **Claim 13. (CANCELLED)**

1 Please amend Claim 14 as follows.

2
3 14. (Currently Amended) The method as recited in claim
4 11 wherein the encoding and decoding algorithms refer to
5 algorithms for encoding and decoding ~~the~~ a transmission
6 signal stream format.

7
8 Claim 15. (CANCELLED)

9 Claim 16. (CANCELLED)

10 Claim 17. (CANCELLED)

11
12 Please amend Claim 18 as follows.

13
14 18. (Currently Amended) A digital radio receiver unit
15 responsive to a signal stream from a transmitting unit, the
16 receiver unit comprising:

17 an antenna for receiving a signal stream from the
18 transmitting unit;

19 a receiver circuit for converting the signal stream to
20 a digital signal stream;

21 a programmable processor for processing the digital
22 signal ~~format~~ stream, the programmable processor including
23 a decoding algorithm for decoding the digital format signal
24 stream, ~~wherein when the digital format signal stream~~
25 ~~requires a different decoding algorithm for decoding, the~~
26 ~~programmable processor installs a new decoding algorithm~~
27 ~~therein; and~~

28 an output device wherein, when the programmable
29 processor determines that ~~the~~ an updated new decoding
30 algorithm needed to decode the digital signal stream is not

1 installed therein, ~~the user is alerted by signals applied~~
2 ~~to~~ the output device providing status signals indicating
3 that the updated decoding algorithm is not present, the
4 ~~user obtaining the new~~ status signals causing the updated
5 decoding algorithm ~~and installing the new decoding~~
6 ~~algorithm~~ to be installed in the programmable processor.

7
8 **Claim 19. (CANCELLED)**

9 **Claim 20. (CANCELLED)**

10 **Claim 21. (CANCELLED)**

11 **Claim 22. (CANCELLED)**

12
13 **Please amend Claim 23 as follows.**

14
15 23. (Currently Amended) The receiver unit as recited
16 in claim 18 wherein the decoding algorithm is an algorithm
17 for decoding a ~~transmission~~ transmitted signal format.

18
19 **Claim 24. (CANCELLED)**

20
21 **Please amend Claim 25 as follows.**

22
23 25. (Currently Amended) A transmitter unit for use in
24 a digital radio system, the transmitter unit comprising:
25 an ~~D/A~~ A/D converter responsive to analog input
26 signals, the ~~D/A~~ A/D converter providing a digital
27 representation of the analog input signals;
28 a format encoding unit coupled to the ~~D/A~~ A/D
29 converter, the format encoding unit controlling the
30 encoding a transmission format of a broadcast transmission

1 according to a transmission format encoding algorithm,
2 wherein the transmission format encoding algorithm ~~can be~~
3 is updated; and

4 an up-converter and power amplifier unit for
5 processing signals from the format encoding unit in an
6 updated transmission format; and

7 antenna for broadcasting ~~the~~ signals from the up-
8 converter and power amplifier unit.

9
10 26. (As Filed) The transmitter unit as recited in
11 claim 25 wherein the transmitter unit broadcasts decoding
12 algorithms and transmission format algorithms to receiver
13 units of the digital radio system.

14
15 **Please add Claim 27.**

16
17 27. (New) The digital radio system as recited in
18 Claim 6 wherein the updated decoding algorithm is provided
19 by one provider selected from the group consisting of the
20 manufacturer of the receiver unit and the transmitter unit.